



# ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

## SUBSONIC ENGINES

ENGINE IDENTIFICATION: PW6124A BYPASS RATIO: 4.8  
 UNIQUE ID NUMBER: 7PW084 PRESSURE RATIO ( $\pi_{c0}$ ): 28.0  
 COMBUSTOR: Talon II  
 ENGINE TYPE: MTF RATED THRUST ( $F_{00}$ ) (kN): 105.9

### REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO <sub>x</sub>	SMOKE NUMBER
D <sub>p</sub> /F <sub>00</sub> (g/kN) or SN	0.0	56.7	45.7	6.7
AS % OF ORIGINAL LIMIT	0.1	48.2	47.6	28.5
AS % OF CAEP/2 LIMIT (NO <sub>x</sub> )			59.5	
AS % OF CAEP/4 LIMIT (NO <sub>x</sub> )			71.6	
AS % OF CAEP/6 LIMIT (NO <sub>x</sub> )			81.4	
AS % OF CAEP/8 LIMIT (NO <sub>x</sub> )			96.6	

### DATA STATUS

- PRE-REGULATION  
 x CERTIFICATION  
 - REVISED (SEE REMARKS)

### TEST ENGINE STATUS

- NEWLY MANUFACTURED ENGINES  
 x DEDICATED ENGINES TO PRODUCTION STANDARD  
 - OTHER (SEE REMARKS)

### EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE  
 (ANNEX 16 VOLUME II)

### CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)  
 x OUT OF PRODUCTION (DATE: - )  
 - OUT OF SERVICE (DATE: - )

### MEASURED DATA

MODE	POWER SETTING (%F <sub>00</sub> )	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO <sub>x</sub>	
TAKE-OFF	100	0.7	1.169	0.00	0.68	21.03	5.2
CLIMB OUT	85	2.2	0.939	0.00	0.81	15.85	4.7
APPROACH	30	4.0	0.325	0.00	3.69	6.88	1.3
IDLE	7	26.0	0.114	0.00	25.19	3.58	1.5
LTO TOTAL FUEL (kg) or EMISSIONS (g)			429	1	4901	4170	-
NUMBER OF ENGINES				1	1	1	1
NUMBER OF TESTS				3	3	3	3
AVERAGE D <sub>p</sub> /F <sub>00</sub> (g/kN) or AVERAGE SN (MAX)				0.0	46.2	39.4	5.2
SIGMA (D <sub>p</sub> /F <sub>00</sub> in g/kN, or SN)							
RANGE (D <sub>p</sub> /F <sub>00</sub> in g/kN, or SN)							

### ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS  
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

### ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	100.8-102.7
TEMPERATURE (K)	270.5-281.2
ABS HUMIDITY (kg/kg)	0.00101-0.00237

### FUEL

SPEC	Jet A
H/C	1.92
AROM (%)	17.4

MANUFACTURER: Pratt & Whitney  
 TEST ORGANIZATION: Pratt & Whitney  
 TEST LOCATION: Stand X8, Pratt & Whitney, East Hartford, CT  
 TEST DATES: 12/12/2003-13/12/2003

### NO<sub>x</sub> REGULATION PARAGRAPH

	2.3.2 c) (CAEP/4)
	2.3.2 d) (CAEP/6)
x	2.3.2 e) (CAEP/8)

### REMARKS

- Data from Report PWA 7662 2.Engine Type description originally wrongly given as TF; amended in Issue 15 to MTF
- Certification in accordance with Part III, Chapter 2, of Amendment 7 of ICAO Annex 16 Vol. II.
- NO<sub>x</sub> levels in accordance with Part III, Chapter 2, 2.3.2 e) (CAEP/8)

Compliance with Fuel Venting requirements:

- ('x' if complies, 'PR' if pre-regulation, '-' if information is not available)